

## XRCC3 Antibody

Catalog No: #34301

Package Size: #34301-1 50ul #34301-2 100ul

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## Description

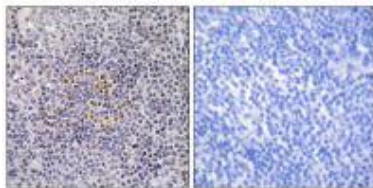
Product Name	XRCC3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	IHC IF
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total XRCC3 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human XRCC3.
Target Name	XRCC3
Other Names	DNA-repair protein XRCC3; X-ray repair cross-complementing protein 3;
Accession No.	Swiss-Prot: O43542NCBI Gene ID: 7517
SDS-PAGE MW	38kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

Immunohistochemistry: 1:50~1:100

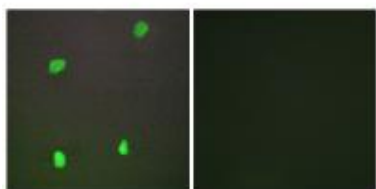
Immunofluorescence: 1:100~1:500

## Images



Immunohistochemistry analysis of paraffin-embedded human tonsil tissue using XRCC3 antibody #34301.

Immunofluorescence analysis of COS-7 cells, using XRCC3 antibody #34301.



## Background

Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the RAD21 paralog protein complex CX3 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, CX3 acts downstream of RAD51 recruitment; the complex binds predominantly to the intersection of the four duplex arms of the Holliday junction (HJ) and to junctions of replication forks. Involved in HJ resolution and thus in processing HR intermediates late in the DNA repair process; the function may be linked to the CX3 complex and seems to involve GEN1 during mitotic cell cycle progression. Part of a PALB2-scaffolded HR complex containing BRCA2 and RAD51C and which is thought to play a role in DNA repair by HR. Plays a role in regulating mitochondrial DNA copy number under conditions of oxidative stress in the presence of RAD51 and RAD51C.

Liu N., Mol. Cell 1:783-793(1998).

Miller K.A., J. Biol. Chem. 277:8406-8411(2002).

Liu N., Nucleic Acids Res. 30:1009-1015(2002).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.